

DH-IPC-HDBW5241R-ASE

2MP IR Fixed-focal Dome WizMind Network Camera



Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Driven by deep learning algorithms, Dahua WizMind S Series network camera offers a variety of intelligent functions that greatly improve the accuracy of audio and video analysis. It supports video metadata, smart sound detection, face detection, perimeter protection, people counting and more. The camera also adopts advanced image processing AI-Powered Image technology and has the Deeplight night vision effect. The camera is dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on the model).

Functions

AI-Powered Image

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

Smart Sound Detection

With deep learning algorithms, Dahua Smart Sound Detection technology can detect and identify the sound of screams, glass breaking, and more.

- * The parameters and datasheets below can only be applied to 5241-ASE-S3 series.
- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2MP (1920×1080) @25/30fps.
- Built-in IR LED, and the max. illumination distance is 50 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports: video metadata, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 512 GB Micro SD card, built-in MIC.
- 12 VDC/PoE power supply; ePoE.
- IP67 and IK10 protection.
- SMD 3.0.



People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Protection (IP67, IK10, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification								Face detection; track; snapshot; snapshot optimization;
Camera								optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes
Image Sensor		1/2.8" CMOS					Face Detection	and 8 expressions; face snapshot set as face, one- inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting
Max. Resolution		1920 (H) × 1080 (V)						
ROM		4 GB					People Counting	Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area and queue management, generating and exporting report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management.
RAM		1 GB						
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Heat Map	Yes
Min. Illumination		0.0007 lux@F1.6(Color, 30 IRE) 0.0004 lux@F1.6(B/W, 30 IRE) 0 lux (Illuminator on)					Video Metadata	Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes : seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of people, top type and color, hat. Human body attributes: gender, top/bottom type and color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.
S/N Ratio		>56 dB						
Illumination Distance		50 m (164.04 ft) (IR)						
Illuminator On/Off Control		Auto;Manual						
Illuminator Number		2 (IR LED)						
Angle Adjustment		Pan: 0°–355° Tilt: 0°–80° Rotation:0°–355°					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Lens							Smart Sound Detection	Yes
Lens Type		Fixed-focal					Video	
Lens Mount		M12					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Focal Length		2.8 mm; 3.6 mm; 6 mm					Smart Codec	Smart H.265+; Smart H.264+
Max. Aperture		F1.6					AI Coding	Al H.265; Al H.264
Field of View		2.8 mm: H: 106°; V: 56°; D: 127° 3.6 mm: H: 88°; V: 44°; D: 105° 6 mm: H: 54°; V: 29°; D: 63°					Video Frame Rate	Main stream: 1080p@1–25/30 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Iris Control		Fixed						
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.3 m (4.27 ft) 6 mm: 2.6 m (8.53 ft)					Stream Capability	4 streams
	Lens	Detect 43.9 m	Observe 17.5 m	Recognize 8.8 m	Identify 4.4 m		Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
DORI	2.8 mm	(144.03 ft)	(57.41 ft)	(28.87 ft)	(14.44 ft)		Bit Rate Control	CBR/VBR
Distance	3.6 mm	58.9 m (193.24 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.36 ft)		Video Bit Rate	H.264: 32 kbps–12032 kbps H.265: 12 kbps–7424 kbps
	6 mm	85.5 m (280.51 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.6 m (28.22 ft)		Day/Night	Auto(ICR)/Color/B/W
Intelligence						BLC	Yes	
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection					HLC	Yes
							WDR	120 dB
Smart Object Detection		Smart abandoned object; smart missing object					Scene Self-adaptation (SSA)	Yes
SMD 3.0		Less false alarm, longer detection distance					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
AI SSA		Yes					Gain Control	Auto

Noise Reduction

3D NR

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Motion Detection	OFF/ON (4 areas, rectangular)						
Region of Interest (Rol)	Yes (4 areas)						
Smart Illumination	Yes						
Defog	Yes						
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)						
Mirror	Yes						
Privacy Masking	8 areas						
Audio							
Built-in MIC	Yes						
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723						
Alarm							
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception						
Network							
Network Port	RJ-45 (10/100 Enhancement Base-T)						
SDK and API	Yes						
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P						
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI						
User/Host	20 (Total bandwidth: 80 M)						
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS						
Browser	IE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later						
Management Software	SmartPSS Lite; DSS; DMSS						
Mobile Client	iOS; Android						
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification						
Certification							
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14						
Port							
Audio Input	1 channel (RCA port)						
Audio Output	1 channel (RCA port)						
Alarm Input	1 channel in: wet contact, 5 mA 3V–5 VDC						
Alarm Output	1 channel out: wet contact, 300mA 12V DC						

Power						
12 VDC/PoE (802.3af)/ePoE						
Basic: 4.1 W (12 VDC); 5.2 W (PoE) Max. (H.265 + WDR+ Intelligence on + IR on): 6.8 W (12 VDC); 8.8 W (PoE)						
-40 °C to +60 °C (-40 °F to +140 °F)						
≤95%						
-40 °C to +60 °C (-40 °F to +140 °F)						
10%–95% (RH), non-condensing						
IP67; IK10						
Metal						
94.0 mm × Φ122.0 mm (3.70" × Φ4.80")						
712.9 g (1.57 lb)						
986 g (2.17 lb)						

Ordering Information							
Туре	Model	Description					
2MP	DH-IPC-HDBW5541R-ASE	2MP IR Fixed-focal Dome WizMind Network Camera					
Camera	IPC-HDBW5541R-ASE	2MP IR Fixed-focal Dome WizMind Network Camera					
	PFA137	Junction Box					
	PFB206W	Wall Mount Bracket					
	PFA109	Mount adapter					
Accessories	PFB220C	Ceiling Mount Bracket					
(Optional)	PFA156	Pole Mount Bracket					
	PFM321D	12 VDC 1 A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

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Accessories

Optional:



PFA137 Junction Mount



PFB220C

Ceiling Mount

Bracket

Bracket

PFB206W

Wall Mount



PFA156 Pole Mount Bracket



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

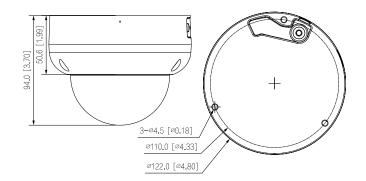


PFA109

Mount adapter

PFM321D 12 VDC 1 A Power Adapter





 Ceiling Mount
 Junction Mount
 Ceiling Mount

 Image: Ceiling Mount
 Image: Ceiling Mount
 Image: Ceiling Mount

 Image: Ceiling Mount
 Image: Ceiling Mount
 Image: Ceiling Mount

 Image: Mail Mount
 Image: Ceiling Mount
 Image: Ceiling Mount

 Image: Mail Mount
 Pole Mount(Vertical)

 Image: Mail Mount
 Image: Ceiling Mount

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